

Q8. Efficacy of actions for recovery

Management Actions Evaluated by PATH

Scenario	Flow Augmentation		Drawdown of four Snake River Dams	Drawdown of John Day Dam	Smolt Transport	Major system improvements (1)
	Columbia	Snake				
A1	X	X	-	-	X	- (2)
A2	X	X	-	-	X	- (3)
A2'	X	X	-	-	X	X
A3	X	X	Natural River	-	-	-
A6	X	X(4)	-	-	-	X
A6'	X	X(5)	-	-	-	X
B1	X	X	Natural River	Natural River	-	-

(1) Includes extended screens and/or surface bypass and/or gas abatement and/or increased spill.

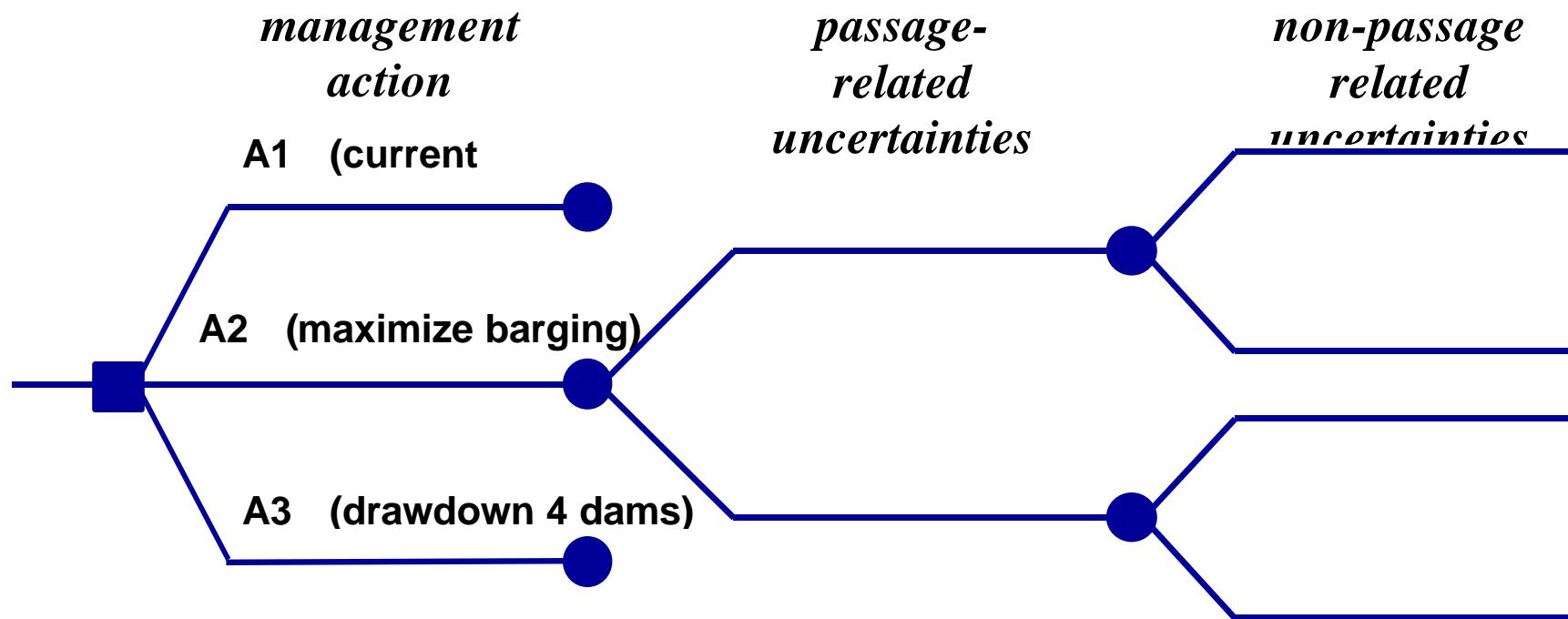
(2) A1 uses current transportation rules.

(3) A2 maximizes transportation using current system configuration.

(4) Dworshak water plus 1.427 million acre-feet from Snake River.

(5) Dworshak water plus 0 MAF from Snake River

PATH decision tree (simplified)



passage-related uncertainties

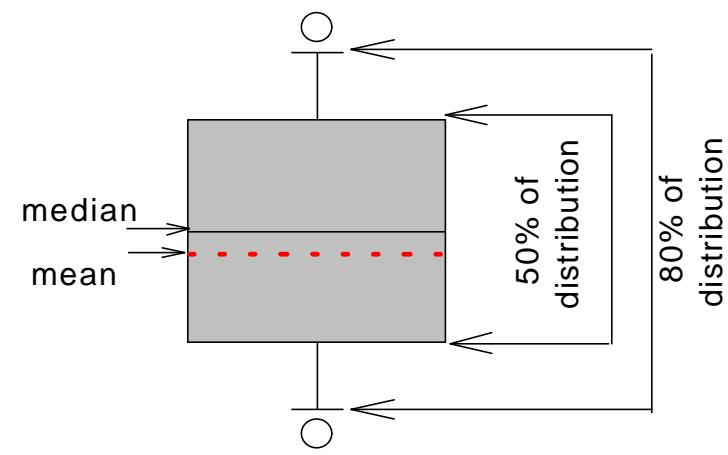
in-river survival
Fish Guidance Efficiency
1970-1980 Turbine-bypass mortality
Predatory removal effectiveness

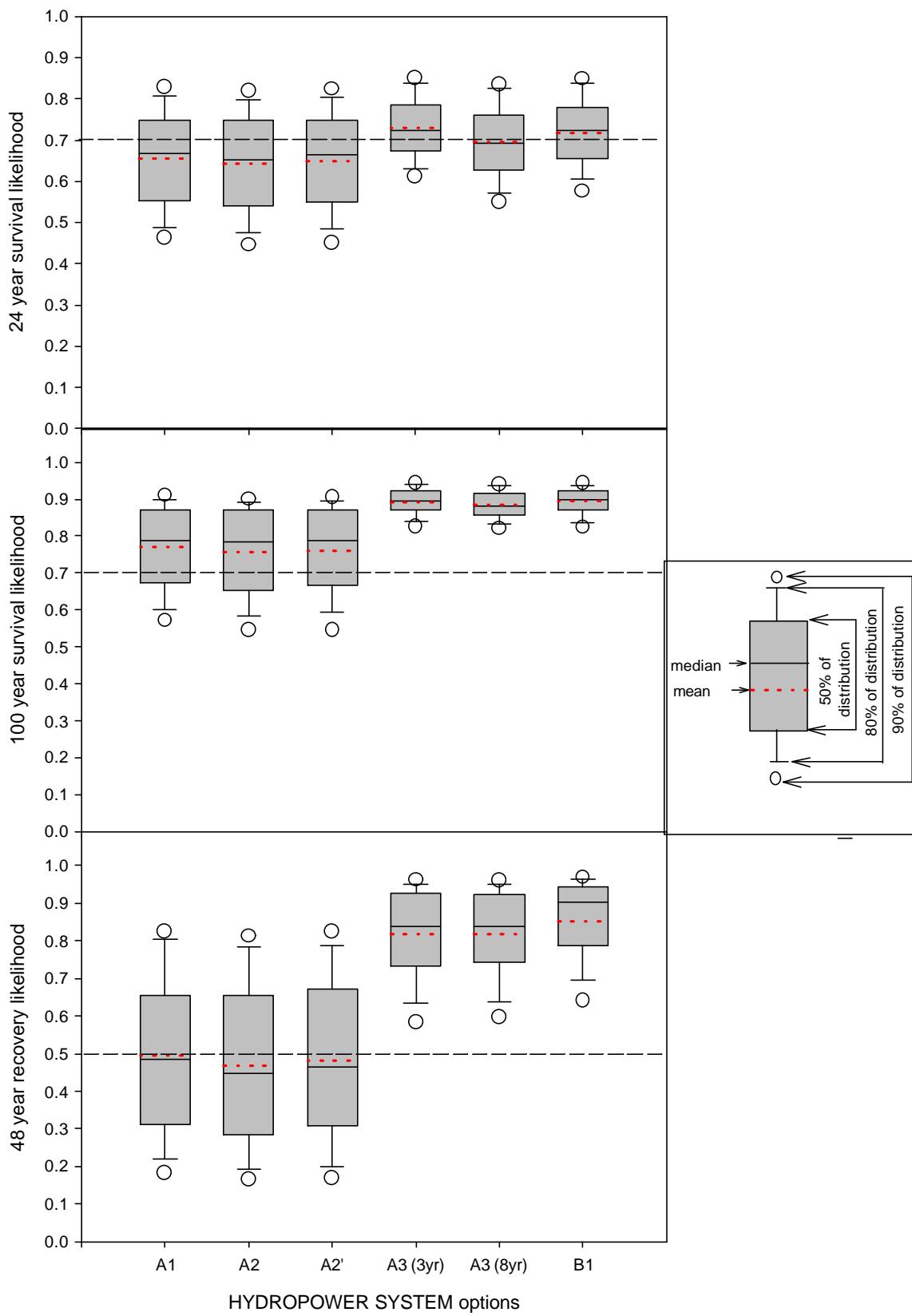
Drawdown (A3) assumptions:
• length of pre-removal period
• length of transition period
• equilibrated juvenile survival

non-passage-related uncertainties

transportation assumptions
stock productivity
extra mortality
future climate
habitat effects

Interpretation of box plot





Weighted average results

